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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/711,473	09/21/2004	Hsi-Ming Chang	13530-US-PA	5472	
31561 75	590 07/18/2006		EXAMINER		
~	JN INTELLECTUAI	ERDEM, FAZLI			
7 FLOOR-1, N	IO 100				
	ROAD, SECTION 2	ART UNIT	PAPER NUMBER		
TAIPEI, 100	•		2826		
TAIWAN			DATE MAILED: 07/18/2006	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application I	No.	Applicant(s)				
Office Action Commence		10/711,473		CHANG, HSI-MING				
	Office Action Summary	Examiner		Art Unit				
		Fazli Erdem		2826				
Period fo	The MAILING DATE of this communication or Reply	n appears on the co	ver sheet with the c	correspondence ad	Idress			
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REHEVER IS LONGER, FROM THE MAILIN asions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communicating period for reply is specified above, the maximum statutory are to reply within the set or extended period for reply will, by eply received by the Office later than three months after the day at the part of	NG DATE OF THIS FR 1.136(a). In no event, I on. period will apply and will ex statute, cause the applicati	COMMUNICATION however, may a reply be timpire SIX (6) MONTHS from on to become ABANDONE	N. nely filed the mailing date of this c D (35 U.S.C. § 133).				
Status								
1)🛛	Responsive to communication(s) filed on	25 April 2006		-				
·	<u> </u>							
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, —	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)🛛	Claim(s) 1-18 is/are pending in the applic	ation.						
-	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
6)🛛	Claim(s) <u>1-18</u> is/are rejected.							
7)								
8)□	Claim(s) are subject to restriction a	and/or election requ	irement.					
Applicati	on Papers							
9) 🔲 .	The specification is objected to by the Exa	aminer.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	nder 35 U.S.C. § 119							
_	Acknowledgment is made of a claim for fo ☐ All b)☐ Some * c)☐ None of:	reign priority under	35 U.S.C. § 119(a)	o-(d) or (f).				
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the	priority documents	have been receive	ed in this National	Stage			
	application from the International B	ureau (PCT Rule 1	7.2(a)).					
* S	ee the attached detailed Office action for	a list of the certified	copies not receive	ed.				
Attachment	•		_					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94		Interview Summary Paper No(s)/Mail Da					
	e of Draftsperson's Patent Drawing Review (PTO-94 nation Disclosure Statement(s) (PTO-1449 or PTO/S		Notice of Informal P		D-152)			
	No(s)/Mail Date	6)	Other:					

Application/Control Number: 10/711,473 Page 2

Art Unit: 2826

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 4/25/2006 have been fully considered but they are not persuasive. Examiner agrees that Cho et al. does not disclose the lightly doped drain regions. However, Shih discloses the lightly doped drain regions 309 in Figs 3A-3G. Cho et al disclose the buffer layer 102(a) between the gate electrode 101b and gate insulating film 103. If the Shih reference had disclosed the required buffer layer configuration, examiner would not have used Cho et al. reference in a 35 USC 103 rejection.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-18 rejected under 35 U.S.C. 103(a) as being unpatentable over Shih
 (2003/0230748) in view of Cho et al. (KR 2002089981) in view of Peng et al. (2004/0219723).

Regarding Claims 1-18, Shi discloses manufacture of TFT planer display panel and process for manufacturing the same where in 3A-3G, it is disclosed a substrate 300, polysilicon layer 304, lighly doped drain regions 309, gate insulating layer 307, gate buffer layer, dielectric layer 310 arranged over gate insulating film 307, source and drain regions 306. Shi fails to disclose the gate buffer layer between gate and the gate insulating layer and the required source/drain metal layers. However, Cho et al. disclose

Application/Control Number: 10/711,473

Art Unit: 2826

a method for fabricating LCD panel where in buffer layer 102(a) is located between gate electrode 101b and gate insulating film 103. Furthermore, Peng et al. disclose a low temperature polysilicon thin film transistor and method of manufacturing the same where in Figs. 1I and 1J source and drain metal configuration are disclosed as 146

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required gate buffer configuration and the required source and drain metal configuration in Shih as taught by Cho et al. and Peng et al. respectively in order to have low temperature polysilicon thin film transistor with increased performance.

Conclusion

3. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The SUPERVISION SUPERVISION FROM EXAMINED 2005.

Examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FE July 7, 2006